

WHAT IS CLAIMED IS:

1 1. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube;
6 an annular spoon-shaped inflatable cuff connected with the periphery of said
7 outlet of said dome;
8 a cuff inflation line having a proximal end and a distal end, wherein said cuff
9 inflation line is configured to be in fluid communication with the internal space of said cuff;
10 and
11 an aperture having multiple lobes formed in said dome; said aperture
12 configured to be in fluid communication with the proximal end of said airway tube, said
13 dome having a plurality of protrusions forming said aperture, and wherein one of said
14 protrusions is configured to prevent the obstruction of said aperture by a patient's epiglottis
15 when said device is inserted into said patient.

1 2. The device of claim 1 wherein said one of said protrusions comprises a
2 flexible flap.

1 3. The device of claim 1 wherein the other of said protrusions are less
2 flexible than said one of said protrusions.

1 4. The device of claim 1 wherein said one of said protrusions is larger
2 than the other of said protrusions.

1 5. The device of claim 1 wherein a plurality of said multiple lobes are
2 elongated.

1 6. The device of claim 1 further comprising a protruding dome tip
2 connected with the distal end of said outlet of said dome, said protruding dome tip's distal end
3 being located in and in fluid communication with said internal space of said cuff.

1 7. The device of claim 1 wherein said dome further comprises a groove
2 and wherein said cuff inflation line is configured to fit in said groove.

1 8. The device of claim 1 wherein said outlet of said dome further
2 comprises a tray portion, and said cuff further comprises a channel on the inner surface of the
3 annular shaped cuff, said channel being connected with the periphery of said outlet of said
4 dome at said tray portion.

1 9. The device of claim 1 wherein said cuff's outer surface is formed in the
2 absence of external protrusions, said cuff further comprising a mold extraction orifice at its
3 distal end formed on an internal surface of said cuff, and wherein said cuff inflation line is
4 configured to be in fluid communication with the internal space of said cuff at an opening
5 comprising said mold extraction orifice.

1 10. The device of claim 1 further comprising a removable connector
2 connected with said proximal end of said airway tube.

1 11. The device of claim 1 wherein said cuff inflation line is configured to
2 be in fluid communication with the internal space of said cuff at a distal end of said cuff; and
3 an inflation line insertion point offset distally from said proximal end of said
4 airway tube, said insertion point being the proximal end and integral with said internal
5 passage.

1 12. The device of claim 11 wherein a portion of the length of said cuff
2 inflation line is placed in said passage.

1 13. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube;
6 an annular spoon-shaped inflatable cuff connected with the periphery of said
7 outlet of said dome;
8 a cuff inflation line having a proximal end and a distal end, wherein said cuff
9 inflation line is configured to be in fluid communication with the internal space of said cuff;
10 and

11 a protruding dome tip connected with the distal end of said outlet of said
12 dome, said protruding dome tip's distal end being located in and in fluid communication with
13 said internal space of said cuff.

1 14. The device of claim 13 wherein said protruding dome tip comprises a
2 slit at its distal end, so as to cause said protruding dome tip to maintain fluid communication
3 with said internal space of said cuff when said cuff is adjacent to said distal end of said
4 protruding dome tip.

1 15. The device of claim 13 wherein said protruding dome tip is less elastic
2 than said cuff, so as to prevent said cuff from folding back on itself when said device is
3 inserted into a patient.

1 16. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube, said outlet having a tray portion;
6 an annular spoon-shaped inflatable cuff, said cuff having a channel on the
7 inner surface of the annular shaped cuff, said channel being connected with the periphery of
8 said outlet of said dome at said tray portion; and
9 a cuff inflation line having a proximal end and a distal end, wherein said cuff
10 inflation line is configured to be in fluid communication with the internal space of said cuff.

1 17. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube;
6 an annular spoon-shaped inflatable cuff connected with the periphery of said
7 outlet of said dome, said cuff's outer surface formed in the absence of external protrusions,
8 said cuff comprising a mold extraction orifice at its distal end formed on an internal surface
9 of said cuff; and

10 a cuff inflation line having a proximal end and a distal end, wherein said cuff
11 inflation line is configured to be in fluid communication with the internal space of said cuff at
12 an opening comprising said mold extraction orifice.

1 18. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube;
6 an annular spoon-shaped inflatable cuff connected with the periphery of said
7 outlet of said dome;
8 a cuff inflation line having a proximal end and a distal end, wherein said cuff
9 inflation line is configured to be in fluid communication with the internal space of said cuff;
10 and
11 a removable connector connected with said proximal end of said airway tube.

1 19. A laryngeal airway device, comprising:
2 an airway tube having a proximal end and a distal end, said airway tube
3 having an internal passage in the airway tube wall;
4 a dome having an inlet and an outlet, said dome connected at its inlet with said
5 distal end of said airway tube;
6 an annular spoon-shaped inflatable cuff connected with the periphery of said
7 outlet of said dome;
8 a cuff inflation line having a proximal end and a distal end, wherein said cuff
9 inflation line is configured to be in fluid communication with the internal space of said cuff at
10 a distal end of said cuff; and
11 an inflation line insertion point offset distally from said proximal end of said
12 airway tube, said insertion point being the proximal end and integral with said internal
13 passage.

1 20. The device of claim 19 wherein a portion of the length of said cuff
2 inflation line is placed in said passage.